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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

08/18/2010

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

PHAN, TUANKHANH D

ART UNIT

PAPER NUMBER

2163

DATE MAILED: 08/18/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,365	02/26/2004	Hyun-sik Yoon	Q79524	3411

TITLE OF INVENTION: NETWORK MANAGEMENT METHOD FOR WIRELESS TRANSMISSION/RECEPTION OF DATA STREAMS, AND NETWORK SYSTEM AND APPARATUS EMPLOYING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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WASHINGTON	N, DC 20037						(Depositor's name)
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			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	PR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/786,365	02/26/2004	•	Hyun-sik Yoon		•	Q79524	3411
TITLE OF INVENTIO NETWORK SYSTEM A		AGEMENT METHOD F PLOYING THE SAME	FOR WIRELESS TRAN	ISMISSION/RECE	PTION	OF DATA STREAM	IS, AND
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
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"Fee Address" ind PTO/SB/47; Rev 03-1 Number is required.  3. ASSIGNEE NAME A	oondence address (or Cha B/122) attached. dication (or "Fee Address 02 or more recent) attach LND RESIDENCE DATA	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.  THE PATENT (print or type)  data will appear on the patent. If an assignee is identified below, the document has been filed for					
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing a  (B) RESIDENCE: (CIT	n assignment. 'Y and STATE OR	COUNT	TRY)	up entity 🖵 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Pl	ease first reapply a	ny prev	iously paid issue fee s	shown above)
Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	ntus (from status indicated as SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo				FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if requestroords of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	the applicant; a reg	istered :	attorney or agent; or th	e assignee or other party in
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23373 7590 08/18/2010			EXAMINER		
SUGHRUE MIO	N, PLLC	PHAN, TUANKHANH D			
	ANIA AVENUE, N.W	ART UNIT	PAPER NUMBER		
SUITE 800 WASHINGTON, I	OC 20037		2163 DATE MAILED: 08/18/201	0	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 914 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 914 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/796 265	YOON ET AL	
Notice of Allowability	10/786,365 <b>Examiner</b>	YOON ET AL.  Art Unit	
	Tues Wheel Dhee	2462	
	Tuan·Khanh Phan	2163	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IN of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED  5) or other appropriate comm  RIGHTS. This application is	in this application. If not included nunication will be mailed in due cou	rse. <b>THIS</b>
1. This communication is responsive to <u>06/01/2010</u> .			
2. X The allowed claim(s) is/are 1,5-12,15,17-25,27 and 29-35	<u>5</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>	,.	l) or (f).	
2. Certified copies of the priority documents have		tion No.	
Copies of the certified copies of the priority d	• •	<u></u>	from the
International Bureau (PCT Rule 17.2(a)).		ou in the hadenar otage appround.	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ile a reply complying with the require	∍ments
4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gives			CE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.		
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Revi	ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<u>_</u> .		
<ul><li>(b) ☐ including changes required by the attached Examine Paper No./Mail Date</li></ul>	r's Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			k) of
6. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT			the:
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<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Informal Patent Application Summary (PTO-413),	
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date			
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	<del>_</del>	's Statement of Reasons for Allowar	nce
	9. 🗌 Other	<u> </u>	
/Tuan·Khanh Phan/	/don wong/		
Examiner, Art Unit 2163	Supervisory F	atent Examiner, Art Unit 2163	

### **EXAMINER'S AMENDMENT**

This action is responsive to the following communication: Appeal Brief filed 6/01/20010.

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Diallo Crenshaw on 8/09/2010.

The application has been amended as follows:

Claim 1. (Currently Amended): A network apparatus for wireless transmission/reception of data streams having management information on wireless channels used for the data streams transmitted in an audio/video (A/V) wireless network which comprises a plurality of data streaming servers and data streaming clients,, said network apparatus comprising:

a processor [[operable]] to process an event, upon occurrence of the event in the network, by extracting apparatus information for the apparatuses within the network from the management information and specifying a second data streaming server different from a first data streaming server according to the extracted information, and by transmitting an event response signal comprising the management information corresponding to the event or by updating the management information corresponding

to the event, thereby generating, in the second data- streaming server, a module that manages the wireless channels for the data streams transmitted in the wireless manner among the apparatuses in the network, wherein only one channel is allocated to transfer a data stream for the second data streaming server by the managing module, and dummy data transmitted during the data stream is not transmitted in the allocated channel, wherein the management information comprises information on empty channels that are not used, and wherein the management information comprises information on connection states of the apparatuses in the network according to an allocated wireless channel.

Claim 2. (Canceled).

Claim 4. (Canceled).

Claim 7. (Currently Amended): The apparatus as claimed in claim 1, wherein the event comprises an allocated channel request event [[operable]] to request a new allocated channel.

Claim 8. (Currently Amended): The apparatus as claimed in claim 1, wherein the event comprises allocated channel sharing request event [[operable]] to request sharing of a currently allocated channel.

Claim 9. (Currently Amended): The apparatus as claimed in claim 1, wherein the event comprises a network participation request event [[operable]] to indicate participation in an already established network.

Application/Control Number: 10/786,365

Art Unit: 2163

Claim 10. (Currently Amended): The apparatus as claimed in claim 1, wherein the event comprises an allocated channel releasing request event [[operable]] to indicate releasing of an already established, allocated channel.

Page 4

Claim 11. (Currently Amended): The apparatus as claimed in claim 1, wherein the event comprises a network disconnection request event [[operable]] to indicate disconnection from an already established network.

Claim 12. (Currently Amended): A data-streaming server in a network apparatus for wireless transmission/reception of data streams, which extracts apparatus information on apparatuses in an audio/video (A/V) wireless network which comprises a plurality of data streaming servers and data streaming clients, by a first data-streaming server, from management information on wireless channels available for data streams transmitted among the apparatuses in the network, designates a second data-streaming server different from the first data-streaming server, depending on the extracted information, and generates, in the second data-streaming server, a module comprising management information on the wireless channels used for the data streams transmitted in a wireless manner among the apparatuses in the network upon occurrence of an event in the network, wherein the module processes the event by one of transmitting an event response signal comprising the management information corresponding to the event and by updating the management information corresponding to the event, thereby managing the wireless channels for the data streams transmitted in the wireless manner among the apparatuses in the network, wherein only one channel is allocated to transfer a data stream for a second data streaming server by a

managing module, wherein dummy data transmitted during the data stream is not transmitted in the allocated channel, wherein the management information comprises information on empty channels that are not used, wherein the management information comprises information on connection states of the apparatus in the network according to an allocated wireless channel, and wherein the server comprises: a control interface adapted to transmit and receive control signals to and from a plurality of apparatuses in a network via a wired/wireless communication network;

a channel selection unit operable to select a channel available in the network;

a wireless interface adapted to transmit data streams in the network.

Claim 14. (Canceled).

Claim 16. (Canceled).

Claim 19. (Currently Amended): The data-streaming server as claimed in claim 12, wherein the event comprises an allocated channel request event [[operable]] to request a new allocated channel.

Claim 20. (Currently Amended): The data-streaming server as claimed in claim 12, wherein the event comprises an allocated channel sharing request event [[operable]] to request sharing of a currently allocated channel.

Claim 21. (Currently Amended): The data-streaming server as claimed in claim 12, wherein the event comprises a network participation request event [[operable]] to indicate participation in an already established network.

Application/Control Number: 10/786,365

Art Unit: 2163

Claim 22. (Currently Amended): The data-streaming server as claimed in claim 12, wherein the event comprises an allocated channel releasing request event [[operable]] to indicate releasing of an already established, allocated channel.

Page 6

Claim 23. (Currently Amended): The data-streaming server as claimed in claim 12, wherein the event comprises a network disconnection request event [[operable]] to indicate disconnection from an already established network.

Claim 24. (Currently Amended): A data-streaming client in a network apparatus for wireless transmission/reception of data streams, which extracts apparatus information on apparatuses in an audio/video (A/V) wireless network which comprises a plurality of data streaming servers and data streaming clients, by a first data-streaming server, from management information on wireless channels available for data streams transmitted among the apparatuses in the network, designates a second data-streaming server different from the first data-streaming server, depending on the extracted information, and generates, in the second data-streaming server, a module comprising management information on the wireless channels used for the data streams transmitted in a wireless manner among the apparatuses in the network upon occurrence of an event in the network, wherein the module processes the event by one of transmitting an event response signal comprising the management information corresponding to the event and by updating the management information corresponding to the event, thereby managing the wireless channels for the data streams transmitted in the wireless manner among the apparatuses in the network, wherein only one channel is allocated to transfer a data stream for a second data streaming server by a

managing module, wherein dummy data transmitted during the data stream is not transmitted in the allocated channel, wherein the management information comprises information on empty channels that are not used, wherein the management information comprises information on connection states of the apparatuses in the network according to an allocated channel, and wherein the client comprises: a control interface adapted to transmit and receive control signals to and from a plurality of apparatuses in a network via a wired/wireless communication network;

a channel selection unit operable to select a channel available in the network;

a wireless interface adapted to receive data streams in the network.

Claim 25. (Currently Amended): A network management method for wireless transmission/reception of a data stream, comprising:

extracting apparatus information on apparatuses in an audio/video (A/V) wireless network which comprises a plurality of data streaming servers and data streaming clients, by a first data-streaming server, from management information on wireless channels available for data streams transmitted among the apparatuses in the network;

designating a second data-streaming server different from the first datastreaming server, depending on the extracted information; and

generating, in the second data-streaming server, a module comprising management information on the wireless channels used for the data streams transmitted in a wireless manner among the apparatuses in the network upon occurrence of an event in the network, wherein the module processes the event by one

Page 8

of transmitting an event response signal comprising the management information corresponding to the event and by updating the management information corresponding to the event, thereby managing the wireless channels for the data streams transmitted in the wireless manner among the apparatuses in the network, wherein only one channel is allocated to transfer a data stream for a second data streaming server by a managing module, wherein dummy data transmitted during the data stream is not transmitted in the allocated channel, wherein the management information comprises information on empty channels that are not used, wherein the management information comprises information on connection states of the apparatuses in the network according to an allocated channel.

Claim 26. (Canceled).

Claim 28. (Canceled).

Claim 31. (Currently Amended): The method as claimed in claim 25, wherein the event comprises an allocated channel request event [[operable]] to request newly allocated channel.

Claim 32. (Currently Amended): The method as claimed in claim 25, wherein the event comprises an allocated channel sharing request event [[operable]] to request sharing of a currently allocated channel.

Claim 33. (Currently Amended): The method as claimed in claim 25, wherein the event comprises a network participation request event [[operable]] to indicate participation in an already established network.

Claim 34. (Currently Amended): The method as claimed in claim 25, wherein the event comprises an allocated channel releasing request event [[operable]] to indicate releasing of an already established, allocated channel.

Claim 35. (Currently Amended): The method as claimed in claim 25, wherein the event comprises a network disconnection request event [[operable]] to indicate disconnection from an already established network.

#### Allowable Subject Matter

Claims 1, 5-12, 15, 17-25, 27, and 29-35 are allowed.

The following is an examiner's statement of reasons for allowance: Independent claims 1, 12, 24 and 25, when considered as a whole, are allowable over the prior arts of record. Specifically, prior arts of record fail to clearly teach or fairly suggest the combination of following limitations:

extracting apparatus information for the apparatuses within the network from the management information and specifying a second data streaming server different from a first data streaming server according to the extracted information, and by transmitting an event response signal comprising the management information corresponding to the event or by updating the management information corresponding to the event, thereby generating, in the second data- streaming server, a module that manages the wireless channels for the data streams transmitted in the wireless manner among the apparatuses in the network, wherein only one channel is allocated to transfer a data stream for the second data streaming server by the managing module, and dummy data transmitted during the data stream is not transmitted in the allocated channel, wherein

the management information comprises information on empty channels that are not used, and wherein the management information comprises information on connection states of the apparatuses in the network according to an allocated wireless channel.

The dependent claims further add limitations to the allowable subject matter of the corresponding independent claims; thus are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan·Khanh Phan whose telephone number is (571)270-3047. The examiner can normally be reached on 4/5/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/786,365 Page 11

Art Unit: 2163

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**TKP** 

/don wong/ Supervisory Patent Examiner, Art Unit 2163